

CORROSION TECHNICIAN

PURPOSE: Protect underground metallic distribution systems.

FUNCTIONS:

1. Protect underground metallic distribution systems.
 - * A. Collect, maintain, and analyze data on the condition of the City's distribution system. This includes designing, operating, and coordinating testing programs.
 - * B. Design and install systems to reduce and/or prevent corrosion and damage to the distribution system.
 - * C. Maintain protective devices, systems, and pipeline markers.
 - * D. Prepare and maintain maps and records of pipeline testing, protection, and condition.
 - * E. Recommend the replacement or abandonment of pipe in the distribution system based on maintenance history and condition as determined by field testing and inspections.
 - * F. Evaluate and recommend the purchase of materials and equipment used in distribution system protection.
 - * G. Construct and maintain all records and reports as required.
 - * H. Check and report the condition of all distribution system above grade pipeline crossings, structures, and pipeline markers.
 - I. Assist in the operation of propane-air peak shaving plant.
2. Organize and direct the work activities of assigned personnel.
 - * A. Determine priorities, assign work, and coordinate schedules of assigned personnel.
 - * B. Assist in the hiring, transfer, suspension, or discharge of assigned personnel.
 - * C. Establish work standards and conduct employee evaluations.
 - * D. Monitor work sites to ensure compliance with established methods, guidelines, standards, and procedures.
 - * E. Train personnel in correct and safe methods and procedures necessary to accomplish their assigned work.
 - * F. Recommend adjustments or other actions in employee grievances.
 - * G. Provide assigned personnel with access to all necessary information.

JOB REQUIREMENTS:

1. EDUCATION:

Two years post-secondary pre-engineering education preferred.

2. EXPERIENCE:

- † Four years experience in the maintenance and protection of underground distribution systems.

3. LICENSE:

- † Accredited as a Corrosion Technician by the National Association of Corrosion Engineers (NACE), or equivalent.

4. KNOWLEDGE:

- † A. Knowledge of cathodic protection and testing techniques.
- † B. Knowledge of gas and water distribution systems.
- † C. Knowledge of pipeline design and layout.
- † D. Knowledge of electricity, especially as it pertains to cathodic protection.
- † E. Knowledge of the principles of mechanical design.
- † F. Knowledge of field survey techniques, especially as related to pipeline placement.

5. SKILLS:

- † A. Skill in maintaining pipeline distribution systems.

6. ABILITIES:

- † A. Ability to transport oneself and the equipment used in the job throughout the area served by the City of Duluth Water & Gas Department.
- † B. Ability to lift and carry up to 50 pounds occasionally without assistance, with frequent lifting and carrying of up to 25 pounds.
- † C. Ability to operate microcomputer equipment.
- † D. Ability to gather, analyze, and interpret data, and make recommendations on that basis.
- † E. Ability to communicate, both orally and in writing.
- † F. Ability to establish effective working relationships with peers, outside agencies, and the general public.
- † G. Ability to understand and apply Department of Transportation regulations that pertain to the transportation and storage of gas.

* Essential functions of the classification.

† Minimum requirements necessary on the first day of employment.

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